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APPLICATION N	O. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/924,536		08/09/2001	Charles A. Shaffer	05272.00003	1981	
22907	7590	03/04/2004		EXAMINER		
BANNE	R & WITC	OFF	FISCHER, JUSTIN R			
	TREET N W	,		ART UNIT	PAPER NUMBER	
SUITE 11 WASHIN	IOU IGTON, DC	20001	1733			
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DATE MAILED: 03/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant/s)	MK
a Company	Application No.	Applicant(s)	
	09/924,536	SHAFFER, CHARLES A	4.
Office Action Summary	Examiner	Art Unit	
	Justin R Fischer	1733	
The MAILING DATE of this communic Period for Reply	ation appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum statu - Failure to reply within the set or extended period for reply with any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a renication. days, a reply within the statutory minimum of thirt tory period will apply and will expire SIX (6) MON III, by statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communic ANDONED (35 U.S.C. § 133).	cation.
Status			
1) Responsive to communication(s) filed	on <u>29 December 2003</u> .		
,	n)⊠ This action is non-final.		
3) Since this application is in condition for closed in accordance with the practice			ts is
Disposition of Claims			
4) Claim(s) 11 and 12 is/are pending in t 4a) Of the above claim(s) is/are 5) Claim(s) is/are allowed. 6) Claim(s) 11 and 12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction. Application Papers 9) The specification is objected to by the 10) The drawing(s) filed on is/are: applicant may not request that any objection. Replacement drawing sheet(s) including the	e withdrawn from consideration. on and/or election requirement. Examiner. a) accepted or b) objected to lide of the discourse of the drawing of the drawi	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.13	
11) The oath or declaration is objected to I	by the Examiner. Note the attached	Office Action of form P1O-15	2.
Priority under 35 U.S.C. § 119			
	ocuments have been received. ocuments have been received in A f the priority documents have been al Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage	;
Attachment(s)		(DTG) 1.15	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date 	O-948) Paper No(s	ummary (PTO-413))/Mail Date Iformal Patent Application (PTO-152) 	

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DETAILED ACTION

1. The indicated allowability of claims 11 and 12 is withdrawn in view of the newly discovered reference(s) to Ahmad (US 3,866,652). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Staten (US 1,097,824, of record) and further in view of Ahmad (US 3,866,652, newly cited), Panaroni (US 5,254,405, of record), and Yunan (US 3,894,973, of record). Staten teaches a tire construction having a core substantially filled with a mixture of "core bits" (comminuted rubber) and a rubber adhesive solution. In this instance, said mixture is made into a preform via a molding operation and subsequently placed within the tire cavity- it is evident that this method does not require a valve to introduce the material since it is not provided to the tire cavity in liquid form. However, one of ordinary skill in the art at the time of the invention would have found it obvious to include said mixture in the tire cavity as a liquid versus a solid preform since such a method eliminates complicated processing associated with molding, in particular the need to have a variety of differently sized molds to accommodate the wide variety of tire sizes. For example, Ahmad discloses a similar tire structure in which a mixture of glass or

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ceramic particles and an adhesive material (urethane) is injected or pumped into a tire cavity via a valve (Column 3, Lines 45-65). Thus, at the time of the invention, the tire industry recognized the ability to transfer a particle-reinforced mixture into a tire cavity via a pump and valve assembly, such that the inclusion of a valve in the tire construction of Staten would have been obvious. As to the "adhesive material", Staten fails to expressly describe the adhesive material as "liquid virgin polyurethane". In any event, one of ordinary skill in the art at the time of the invention would have found it obvious to use polyurethanes as the specific adhesive material in Staten since it is extensively used as an adhesive or binder in the formation of tire components formed of chopped/comminuted tire particles, as shown for example by Panaroni (Column 1, Lines 14-51) and Yunan (Column 1, Lines 10-30, Column 2, Lines 50-59, and Column 3, Line 45). It is additionally noted that the adhesive/binder material of Ahmad is a polyurethane (Column 2, Lines 56+). Thus, polyurethanes represent an extremely well known adhesive or binder material (described as popular binder by Panaroni: Column 1, Line 40) that would have been readily appreciated n the tire construction of Staten.

Regarding claim 12, the valve has an opening to allow the passage of the reinforced mixture (particle and adhesive/binder) into the tire cavity. In order to allow such a filling method, the valve would necessarily have an opening larger than comminuted/chopped particles.

Response to Arguments

4. As noted above, the indicated allowability of claims 11 and 12 is withdrawn in view of the newly discovered reference(s) to Ahmad (US 3,866,652).

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Justin R Fischer** whose telephone number is **(571) 272-1215**. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Justin Fischer

February 23, 2004

JEFF H. AFTERGUT PRIMARY EXAMINER

GROUP 1300